

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
(Under 37 CFR 1.97(b) or 1.97(c))Docket No.  
HAL-11303/04

In Re Application Of: Toshiharu NOGI et al.

Serial No.

Filing Date

Examiner

Group Art Unit

Title: COLD START ENGINE CONTROL APPARATUS AND METHOD

Address to:  
Assistant Commissioner for Patents  
Washington, D.C. 20231**37 CFR 1.97(b)**

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application; within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or before the mailing date of a first Office Action on the merits, whichever event occurs last.

**37 CFR 1.97(c)**

2. ☐ The Information Disclosure Statement submitted herewith is being filed after three months of the filing of a national application, or the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or after the mailing date of a first Office Action on the merits, whichever occurred last but before the mailing date of either:

1. a Final Action under 37 CFR 1.113, or
2. a Notice of Allowance under 37 CFR 1.311,

whichever occurs first.

Also submitted herewith is:

- ☐ a certification as specified in 37 CFR 1.97(e);

**OR**

- ☐ the fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under 37 CFR 1.97(c).

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Title: **COLD START ENGINE CONTROL APPARATUS AND METHOD**

**Payment of Fee**

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of \_\_\_\_\_ is attached.
- ☒ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 07-1180 as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of \_\_\_\_\_
- ☒ Credit any overpayment.
- ☒ Charge any additional fee required.

**Certificate of Transmission by Facsimile\***

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (Fax. No. \_\_\_\_\_) on

(Date)

Signature

Typed or Printed Name of Person Signing Certificate

**Certificate of Mailing by First Class Mail**

I certify that this document and fee is being deposited on \_\_\_\_\_ with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Signature of Person Mailing Correspondence

Typed or Printed Name of Person Mailing Correspondence

\*This certificate may only be used if paying by deposit account.

Dated:

4/20/01

Signature

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**Birmingham, MI 48009-5394**  
**(248) 647-6000**

CC:

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 5,894,832  
DATED : April 20, 1999  
INVENTOR(S) : Toshiharu Nogi et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 4, line 11 - Replace "is" with --are--.  
Column 4, line 60 - Replace "passed" with --past--.  
Column 6, line 13 - Replace "1" with --1-f--.  
Column 6, line 33 - Insert -- of the -- after "one".  
Column 8, line 8 - Replace "18" with --13--.  
Column 8, line 10 - Replace "22" with --23--.  
Column 8, line 16 - Replace "22" with --23--.  
Column 10, line 27 - Replace "pulses" with --pulse--.  
Column 12, line 13 - Replace "affected" with --effected--.  
Column 12, line 56 - Replace "passed" with --past--.  
Column 13, line 33 - Replace "passed" with --past--.  
Column 13, line 36 - Replace "heater" with --heating--.  
Column 13, line 38 - Replace "heater" with --heating--.  
Column 13, line 41 - Replace "heater" with --heating--.  
Column 13, line 46 - Replace "a n" with --an--.  
Column 13, line 49 - Replace "heater" with --heating--.  
Column 14, line 31 - Insert --occurs-- after "injectors".  
Column 15, line 32 - Insert --occurs-- after "injectors".  
Column 16, line 25 - Replace "maximum" with --steady state--.  
Column 16, line 25 - Insert --level-- after "current".  
Column 16, line 35 - Insert --occurs-- after "injectors".

Signed and Sealed this  
Fourth Day of January, 2000

Attest:



Attesting Officer

Acting Commissioner of Patents and Trademarks

11000 U.S. PTO  
09/839837  
04/20/01

#4

TO  
1000 U.S.  
09/83983  
04/20/01

**INFORMATION DISCLOSURE CITATION**  
*(Use several sheets if necessary)*

Docket Number (Optional)

HAL-11303/04

Application Number

Applicant(s)

Toshiharu Nogi et al.

Filing Date

Group Art Unit

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL | REF | DOCUMENT NUMBER | DATE    | NAME           | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|-----|-----------------|---------|----------------|-------|----------|-------------------------------|
|                      |     | 4,587,941       | 5/1986  | Mishina et al. | 123   | 550      |                               |
|                      |     | 4,627,405       | 12/1986 | Imhof et al.   | 123   | 549      |                               |
|                      |     | 5,224,456       | 7/1993  | Hosoda et al.  | 123   | 520      |                               |
|                      |     | 5,315,975       | 5/1994  | Hattori et al. | 123   | 337      |                               |
|                      |     | 5,322,043       | 6/1994  | Shriner et al. | 123   | 306      |                               |
|                      |     | 5,394,857       | 3/1995  | Yanakawa       | 13    | 686      |                               |
|                      |     | 5,465,701       | 11/1995 | Hunt           | 123   | 531      |                               |
|                      |     | 5,482,023       | 1/1996  | Hunt et al.    | 123   | 491      |                               |
|                      |     | 5,529,035       | 6/1996  | Hunt et al.    | 123   | 179.15   |                               |
|                      |     | 5,598,826       | 2/1997  | Hunt et al.    | 123   | 491      |                               |
|                      |     |                 |         |                |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|  | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | Translation |    |
|--|-----|-----------------|------|---------|-------|----------|-------------|----|
|  |     |                 |      |         |       |          | YES         | NO |
|  |     |                 |      |         |       |          |             |    |
|  |     |                 |      |         |       |          |             |    |
|  |     |                 |      |         |       |          |             |    |
|  |     |                 |      |         |       |          |             |    |
|  |     |                 |      |         |       |          |             |    |

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

SAE 880558. Nogi et al.: Mixture Formation of Fuel Injection Systems in Gasoline Engines: Feb. 29-March 4, 1988.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.